

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Kaiser-Francis Oil Company
Address: P. O. Box 21468, Tulsa, OK 47121-1468
Contact party: Charlotte Van Valkenburg Phone: 918-491-4314
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: Charlotte Van Valkenburg Title: Technical Coordinator
Signature: C. Van Valkenburg Date: 11/10/89
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

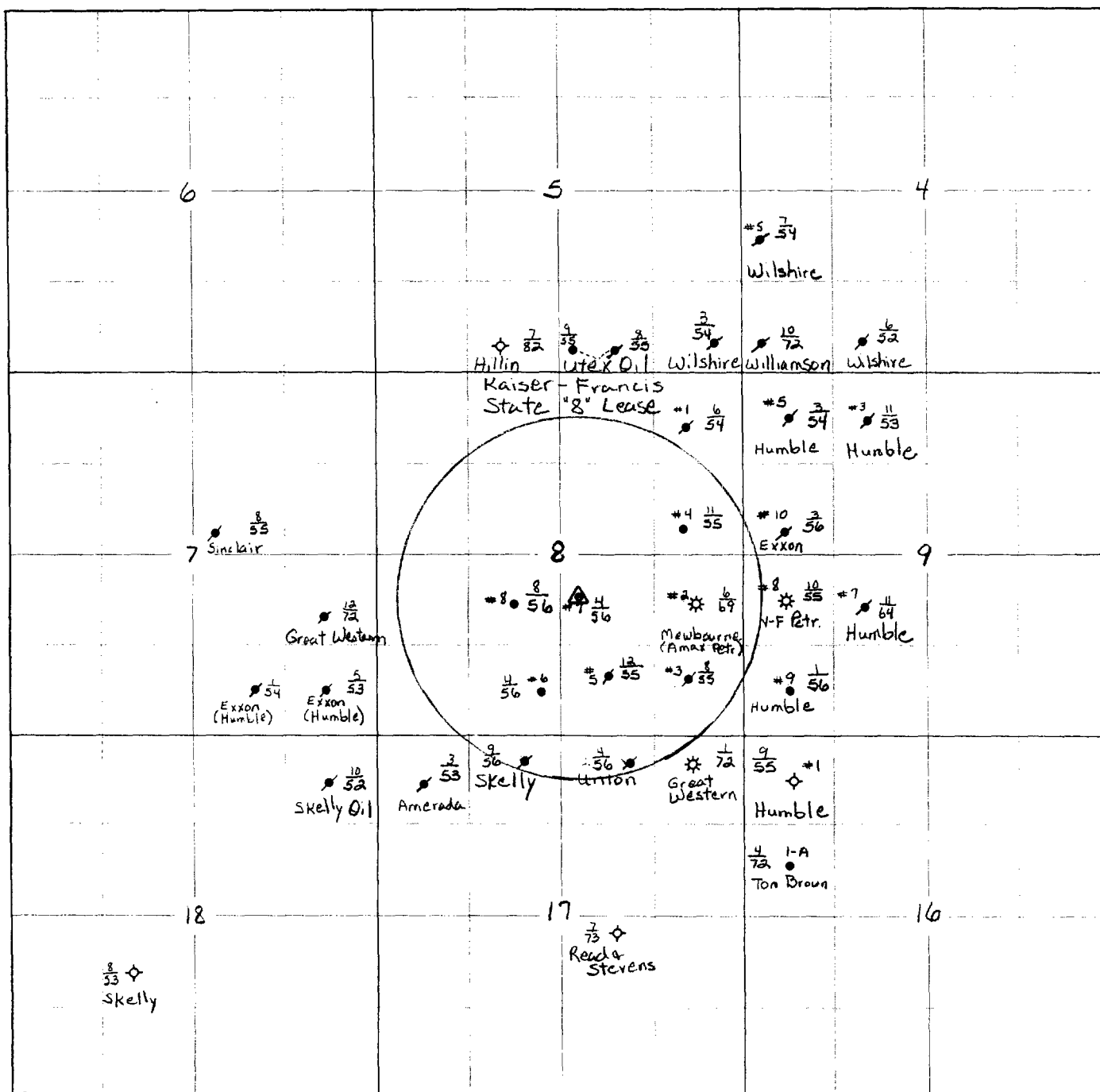
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

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NOV 29 1989

OCB
HOBBS OFFICE

TOWNSHIP 16S RANGE 35E COUNTY Lea STATE N. M.



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NOV 29 1989

OCD
HOBBS OFFICE

PRODUCING WELL DATA
AREA OF REVIEW
Section 8-165-35E
Lea County, NM

NAME	State 8 #4	State 8 #6	State 8 #8	State ETR #2
OPERATOR	KFOC	KFOC	KFOC	Shell
LOCATION	2310' FNL	660' FSL	1690' FSL	1980 FSL
ELEV.	660' FEL	2210' FNL	1960' FNL	660' FEL
SPUD	4039' DF	4041' DF	4046' DF	4036'
TD	11/4/55	4/14/56	8/1/56	6/28/55
CASING:	10535'	10638'	10624'	10537
13 3/8"	@ 360'	@ 358'	@ 325'	@ 366'
8 5/8"	w/ 400 sx	w/ 350 sx	Cmt Circ	w/ 400 sx
5 1/2"	@ 4653'	@ 4700'	@ 4700'	@ 4690'
4"	w/ 1700 sx	w/ 2050 sx	Cmt Circ	w/ 2450 sx
	@ 10536'	@ 10644'	@ 10624'	@ 10537'
	w/ 300 sx	w/ 400 sx	w/ 400 sx	w/ 450 sx
PERFS O/R	10402-422'	10614-642'	10545-596'	10377-468'
TREATMENT	1500 gal MCR	1000 gal MCR	none	2000 gal MCR
ZONE	Wolfcamp	Wolfcamp	Wolfcamp	Wolfcamp
IP	325 BOPD	231 BOPD	316 BOPD	372 BOPD
	333 MCFD	234 MCFD	581 MCFD	438 MCFD
CURRENT				
PERFS O/R	10386-422'	10316-588	10300-596'	Abandoned
PBD	MC	10602'	MC	
				11770-786'
				11900'

Wellbore Sketch

Shell Oil Co. - State ETA #3

990' FSL @ 660' FEL

Sec. 8-165-35E, Lea, NM

Spud 8/10/55

Elev. 4038' DF

TD - 10,550'

Csg: 13 $\frac{3}{8}$ " @ 349' w/ 400 SX8 $\frac{5}{8}$ " @ 4700' w/ 2400 SX5 $\frac{1}{2}$ " @ 10,550' w/ 300 SX

Perf: 10,456' - 10,496'

Acidize w/ 2000 gal. HCA

IPF - 343 BOPD

P & A 4/28/65Pulled 6000' 5 $\frac{1}{2}$ " Csg.

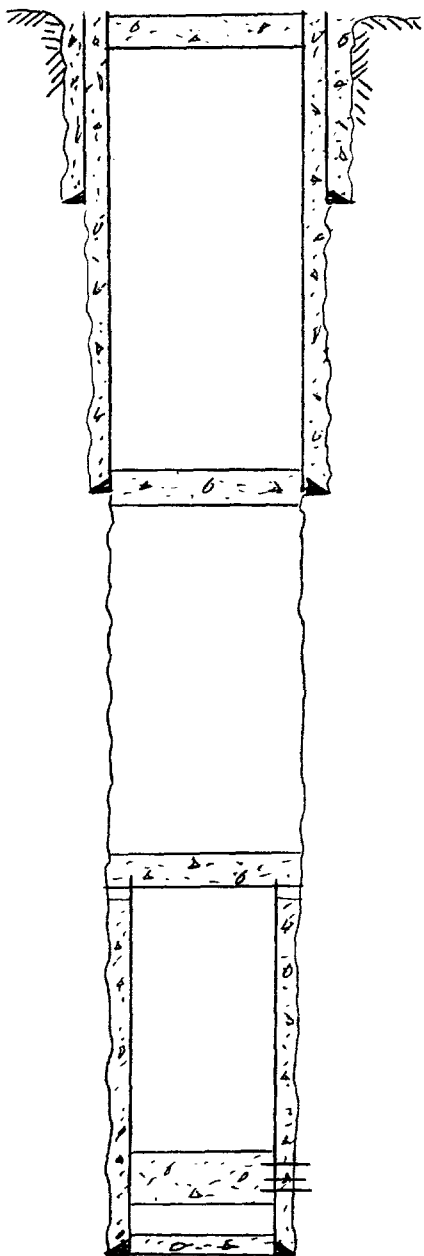
Cmt Plugs:

50 SX across perf's

25 SX @ 6000'

25 SX @ 4590'

10 SX @ surface



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Wellbore Sketch

Shell Oil Co. - State ETA #5
 990' FSL & 1980' FEL
 Sec. 8 - 16S - 35E, Lea, NM

Spud 12/26/55
 Elev. 4042' DF
 TD - 10,517'

Csg : 13 3/8" @ 350' w/ 400 SX
 8 5/8" @ 4655' w/ 1800 SX
 5 1/2" @ 10,517' w/ 400 SX

Perf : 10,430' - 10,462'

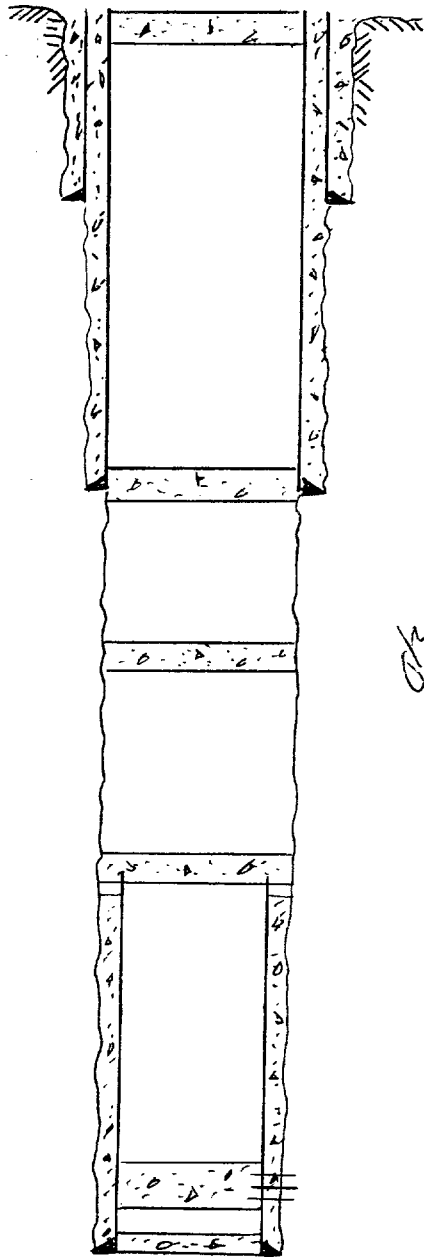
Acidize w/ 2000 gals. HCl

IPF - 480 BOPD

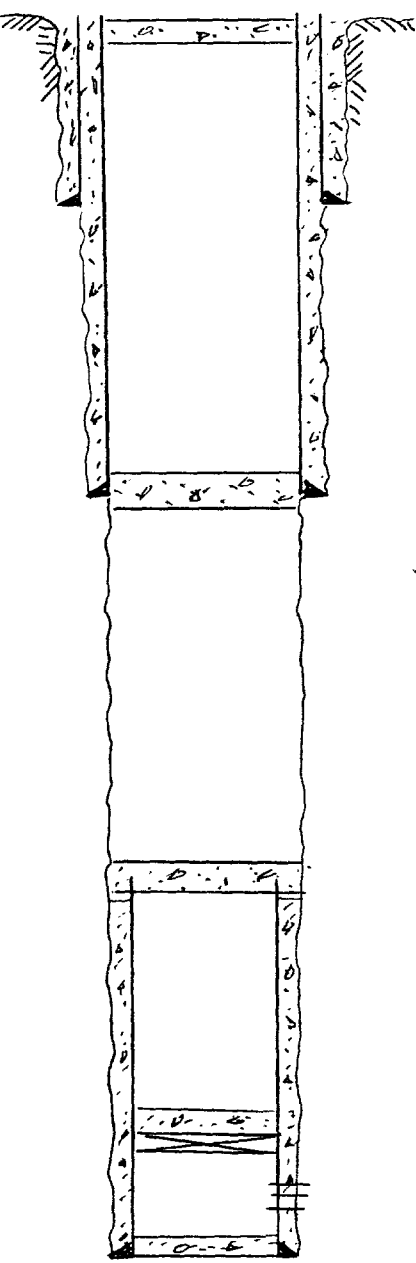
FEA 5/9/65

Pulled 8010' 5 1/2" csg

Cmt. Plugs:
 50 SX across perf's
 25 SX @ 8010'
 25 SX @ 6200'
 25 SX @ 4650'
 10 SX @ Surface



Wellbore Sketch
 Skelly Oil Co. - Hobbs "D" #1
 330' FNL & 2310' FWL
 Sec 17-16S-35E, Lea, NM



Spud 7/6/56

Elev. 4041' DF

TD - 10,682'

CSq. : $13\frac{3}{8}$ " @ 350' w/ 360 SX

$8\frac{5}{8}$ " @ 4653' w/ 1950 SX

$5\frac{1}{2}$ " @ 10,682' w/ 500 SX

Perf. : 10,642 - 10,674'

Acidized w/ 1000 gal.

IPF - 721 BOPD

PEA 6/12/71

Pulled 6014' $5\frac{1}{2}$ " CSQ

Set CIBP @ 10,002' w/ 2 SX cmt. on top

Cmt. plugs. @:

6070 - 5970' 50 SX

4665 - 4565' 50 SX

10' - surface 15 SX

200-17-55

NOV 29 1989

OCD
HORBS OFFICE

Wellbore Sketch

Pure Oil Co. - State Lea "C" #2
330' FNL & 1650' FEL
Sec. 17-16S-35E, Lea, NM

Spud 4/5/56

Elev. 4036' DF

TD - 10,578'

Csq. : 11 3/4" @ 363' w/ 450 SX.

8 5/8" @ 4633' w/ 2800 SX

5 1/2" @ 10,578' w/ 375 SX

Perf. : 10,470' - 10,528'

Acidize w/ 500 gal. Mud Acid

IPF - 409 BOPD

P&A 10/26/70

Pulled 7765' 5 1/2" CSQ

Pulled 405' 8 5/8" CSQ

Cut Plugs :

25 SX @ 10,578'

25 SX @ 7765'

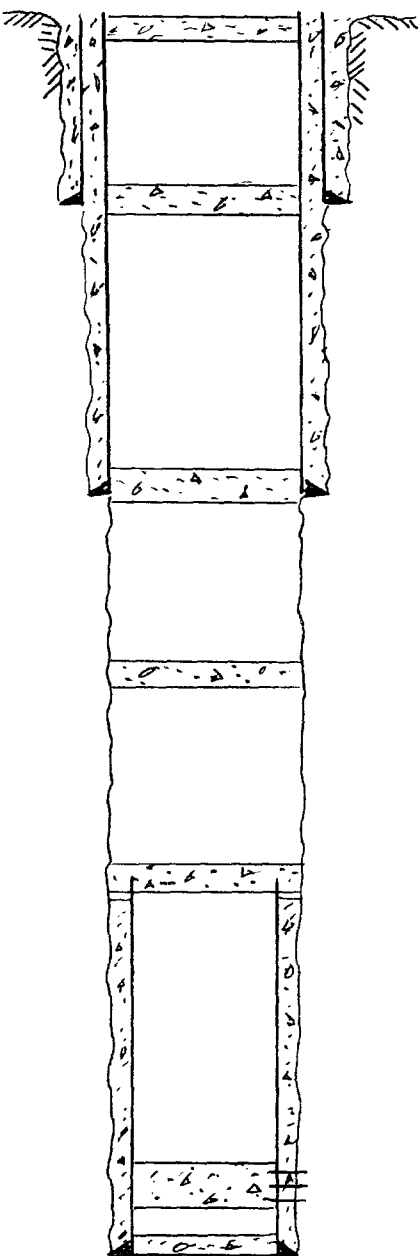
25 SX @ 6200'

25 SX @ 4633'

25 SX @ 405'

10 SX @ surface

OK



Mrs. E. L. Harrod
P.O. Box 243
Lovington, N.M. 88260

November 24, 1989

Kaiser-Francis Oil Co.
P.O. Box 21468
Tulsa, Oklahoma 74121

Gentlemen:

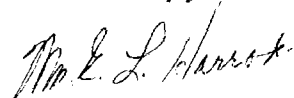
I received by certified mail a copy of your application for a salt water disposal well in Sec. 8-16S-R35E, Lea County New Mexico.

Under the previous operators of the lease, the tanks and lines were allowed to leak salt water onto the roads and pasture. Constantly leaking flow lines and repair crews created new roads on the property and destroyed grassland. The leaked salt water was allowed to contaminate a surface livestock water tank. The well was then plugged and abandoned because of casing problems.

Because of the aforementioned problems I protest the installation of an injection well without agreement as to operational guarantees, surface damages and rental amounts. Under no circumstances will I grant permission for a commercial disposal well to take off lease water.

I would appreciate having specific details of your proposal. I can be contacted at the above address or at telephone number (505) 396-2695.

Sincerely,



Mrs. E.L. Harrod

Enc.

cc: OCD
DMH

OIL CONSERVATION DIVISION
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'89 NOV 28 AM 8 26

Mrs. E. L. Harrod
P.O. Box 243
Lovington, N.M. 88260

November 24, 1989

OIL CONSERVATION DIVISION
P.O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501

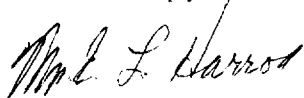
Gentlemen:

I received a copy of an application by Kaiser-Francis Oil Co. of Tulsa, Oklahoma for a saltwater disposal well on my ranch in section 8, T16S, R35E, Lea County New Mexico. A previous operator of this lease plugged this particular well because of casing problems. It was a continuous cause of surface damages due to leaks and poor maintenance.

Because of previous experience and concern about the condition of the well bore, I protest the installation of a saltwater injection well on my property and under no circumstances will I agree to a commercial installation to take off lease water.

Please find enclosed a copy of my correspondence to Kaiser-Francis Oil Company. I can be contacted at the above address or at telephone number (505) 396-2695.

Sincerely,



Mrs. E.L. Harrod

Enc.

cc: Kaiser-Francis Oil Co.
DMH

OIL CONSERVATION DIVISION
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KAISER-FRANCIS OIL COMPANY

P.O. BOX 21468

TULSA, OKLAHOMA 74121-1468

'89 DEC 11 AM 9 07

6733 South Yale Ave.
(918) 494-0000

December 8, 1989

Mrs. E. L. Harrod
P.O. Box 243
Lovington, NM 88260

Re: Application for SWD Well
State 8 Lease
Sec 8-16S-33E
Lea County, NM

Dear Mrs. Harrod:

Reference is made to your letter of November 24, 1989 in which you expressed your concerns regarding our application for a SWD well. As stated in your letter, however, your concerns are caused by the actions of a previous operator and not by Kaiser-Francis' operation of this lease.

Specifically, we propose to re-enter the State 8 No. 7. This was an oil well that was plugged and abandoned on May 18, 1965 and was never used as a salt water disposal well. The well was properly plugged; therefore, the surface and intermediate casing strings that were left in the well should be in good condition. As required by state regulations, the casing will be pressure tested before any salt water injection will be started. A casing inspection log will also be run to verify that the casing is in good condition. Water injection will be into the San Andres formation, which is a nonproductive zone in this area, from 4700' to 6100'. Plastic lined tubing and a packer will also be run to further protect the casing from possible corrosion. A 3 inch plastic line will be installed from the lease tank battery to the SWD well and all salt water will be pumped from the salt water tank directly into the disposal well.

There will be no off lease salt water trucked onto the lease nor will any salt water pipelines from off lease be installed for disposal into this well.

The well that was used by the previous operator for salt water disposal was the State 8 No 1. This well was converted to SWD service in November, 1960 and was plugged and abandoned on January 15, 1982. The well was plugged because of casing leaks. These casing leaks were caused by corrosion resulting from the use of unlined tubing as an injection string and inadequate monitoring and maintenance of the well.

Mrs. E. L. Harrod

Page 2

December 8, 1989

Kaiser-Francis is a prudent operator and will maintain the salt water disposal line and system in good repair. The use of plastic lined tubing and a plastic disposal line will substantially reduce the risk of leaks. Rules and regulations governing the use and monitoring of salt water disposal wells are much more strict than they were a few years ago; therefore, a reoccurrence of the problems experienced by the previous operator is highly unlikely. A disposal well on this lease will also eliminate the almost daily truck traffic onto the lease to haul salt water to a disposal facility. Should any damages occur, settlement for those damages will be fairly negotiated.

If you have any questions, please contact the undersigned at (918) 491-4339.

Sincerely,

KAISER-FRANCIS OIL COMPANY


Milton Griffin

MG:klw

cc: New Mexico Oil Conservation Division
P.O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION

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'89 DEC 1 AM 9 37

11-28-89

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6167

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC _____
NSL _____
NSP _____
SWD ☒ _____
WFX _____
PMX _____

Gentlemen:

I have examined the application for the:

Kaiser Frances oil Co. State 8 #7-J 8-16-35
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows: (Formerly Shell oil Co. State ETA #7)

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed